

## BIBLIOGRAPHY.

## RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Professor in charge of Library.

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

**Ångström, Anders.**

Sannolikhet och praktisk väderleksprognos. [Stockholm. 1919.] cover-title. 11 p. charts. 20 $\frac{1}{2}$  cm. At head of title: Från Statens meteorologisk-hydrografiska anstalt.

**Australia. Bureau of meteorology.**

Orographical map of Australia. Melbourne. 1918. col. map 76 $\frac{1}{2}$  x 101 $\frac{1}{2}$  cm.

**Becker, Wilhelm.**

Ueber den Luftwiderstand. [Berlin. 1913.] 49 p., 1., charts. 5 tables. diagrs. 23 cm. Inaug.-Diss. Berlin.

**Bjerknes, J.**

On the structure of moving cyclones. Kristiania. 1919. cover-title. 8 p. diagrs. 31 cm. (Geofysiske publikationer utgit av den Geofysiske kommission. Vol. 1, no. 2.) [Reprinted in Mo. Weather Rev., Feb., 1919, p. 95-99.]

**Blue Hill meteorological observatory.**

Observations and investigations made in the year 1918. Cambridge, Mass. 1919. tables. 30 cm. (Annals of the Astronomical observatory of Harvard college. Vol. 83, part 3, p. [97]-125.)

[Report of the director] 1917-1918. (Excerpted from Official register of Harvard university. Reports of the president and the treasurer of Harvard college, 1917-18. Volume 16. Cambridge, Mass. 1919. p. 226-227. 23 $\frac{1}{2}$  cm.)

**Caracas. Observatorio Cajigal.**

Resumen de las observaciones meteorológicas practicadas en este observatorio durante el año 1908-1918. Caracas. [1909-1919.] 11 sheets. various sizes.

**Coimbra. Observatorio meteorológico.**

Observações meteorológicas, magnéticas e sísmicas feitas no ano de 1918. Volume 57. Coimbra. 1919. viii, 165 p. tables. 36 $\frac{1}{2}$  cm.

**Descombes, Paul.**

L'influence du reboisement sur l'abondance des caux. [2] p. 26, cm. (Extrait de la "Revue scientifique" du 24 août 1918.) At head of title: Association centrale pour l'aménagement des montagnes. Office de défense forestière et pastorale.

**Eredia, Filippo.**

Sulla direzione delle correnti aeree in Sicilia. Roma. 1918. cover-title. tables. 28 cm. At head of title: Rendiconti della R. Accademia dei Lincei. Classe di scienze fisiche, matematiche e naturali. Estratto dal vol. 27, serie 5a, 2° sem., fasc. 6.º, p. [171]-175.)

**Exner, Felix M.**

Dynamische Meteorologie. Leipzig. 1917. ix, 308 p. charts. diagrs. 23 cm.

**Fischer, Karl.**

Niederschlag und Abfluss im Odergebiet. Berlin. 1915. iv, 50 p. charts (part. fold.) tables. 34 $\frac{1}{2}$  cm. At head of title: Jahrbuch für die Gewässerkunde Norddeutschlands. Besondere Mitteilungen Bd. 3. Nr. 2.

**Great Britain. Meteorological office.**

The climate of the Balkans, Greece, and the Aegean Sea during the winter months. London. 1915. 34 p. tables. 24 $\frac{1}{2}$  cm. M. O. 226.

**Koestler, W.**

Blitzgefahr und Blitzschutz; insbesondere die Bedeutung, Funktion und Konstruktion vom Gebäude-Blitzableiter. Burgdorf. 1914. vii, 111 p. illus. diagrs. 19 cm.

**Krauss, Joseph.**

Grundzüge der maritimen Meteorologie und Ozeanographie. Mit besonderer Berücksichtigung der Praxis und der Anforderungen in Navigationsschulen. Berlin. 1917. xii, 221 p. illus. charts, tables. 21 cm.

**Maracaibo. Estación [meteorológica].**

Resumen de las observaciones, 1º de marzo, 1915-31 de diciembre, 1918. Maracaibo [1916-1919]. 4 sheets. various sizes. At head of title: Red meteorológica de Venezuela.

**Merida. Estación [meteorológica].**

Resumen de las observaciones practicadas, 1º de mayo, 1915-31 de diciembre de 1918. Merida. [1916-1919] 4 sheets. various sizes. At head of title: Red meteorológica de Venezuela.

**Michl, Anton.**

Uebersicht der an der meteorologischen Beobachtungsstation in Eger im Jahre 1912 angestellten Beobachtungen. tables. 23 $\frac{1}{2}$  cm. (Excerpted from Jahresbericht über das K. K. Staatsgymnasium in Eger (Bohmen) für das Schuljahr 1912-1913, p. 26-28.)

**Ona. Colegio máximo de la Compañía de Jesús.**

Observaciones meteorológicas, 1918. Ona 1919. n. p. tables. 24 cm.

**Stewart, Charles.**

Meteorological data of Spokane, Washington, for 37 years, 1882-1918. tables. 23 cm. (Excerpted from 26th-27th Annual report of the Dept. of health, City of Spokane, Washington, 1917-1918, p. 91-97.)

**Udden, Johan A [August].**

Fossil ice crystals, an instance of the practical value of "pure science." Bureau of economic geology and technology, Division of economic geology. Austin, Tex. 1918. 8, [20] p. 10 plates. 23 cm. (University of Texas bulletin, no. 1821. April 10, 1918.)

**Ugueto, Luis.**

Climatología de Caracas en los últimos 27 años. Caracas. 1918. cover-title. 625-650 p. charts. tables. 31 cm. Running title: Documentos de la memoria de instrucción pública.

**RECENT PAPERS BEARING ON METEOROLOGY AND SEISMOLOGY.**

C. FITZHUGH TALMAN, Professor in Charge of Library.

The following titles have been selected from the contents of the periodicals and serials recently received in the Library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

*Engineering news-record.* New York. v. 83. 1919.

*Lightning pushes sidewalk off concrete bridge.* p. 68-69. (July 10.)

*Wiley, C. C.* Comparison of road subgrade and air temperatures. p. 128-129. (July 17.)

*Geographical review.* New York. v. 7. June, 1919.

*Ross, Emory.* The climate of Liberia and its effect on man. p. 387-402.

*Imperial earthquake investigation committee.* Bulletin. Tokyo. v. 7. no. 3. March, 1919.

*Omori, F[usatikichi].* The eruptions and earthquakes of the Asama-Yama. VI. (Notes on the eruptive and seismic disturbances, 1911-1917.) p. 327-456.

*Japan. Central meteorological observatory of Japan.* Bulletin. Tokyo. v. 3. no. 1. 1919.

*Nakamura, Saemontaro.* On the propagation of seismic waves in the region near epicentre. p. 1-18.

*Okada, T.* On the possibility forecasting the summer temperature and the approximate yield of rice crop for northern Japan. p. 19-32.

*Fujiwara, S., & Oti, S.* On the arc of Lowitz and allied phenomena. p. 33-56.

*Nature.* London. v. 103. June 19, 1919.

*Father Walter Sidgreaves, S. J.* p. 307-308. [Obituary.]

*Physical review.* Lancaster. (2). v. 14. July, 1919.

*Hebb, T. C.* The velocity of sound and the ratio of the specific heats for air. p. 74-84.

- Popular science monthly.* New York. v. 94. Apr., 1919.  
How railroads fight blizzards with electric heaters. p. 30.
- Royal astronomical society of London.* Monthly notices. v. 79. May, 1919.
- Turner, H. H. On a long period (about 240 years) in Chinese earthquake records. p. 531-539.
- Royal society of Edinburgh.* Proceedings. Edinburgh. v. 39. pt. 1. 1918-1919.
- Logie, John. The origin of anticyclones and depressions. p. 56-77.
- Science.* New York. v. 50. 1919.
- Ward, Robert DeCourcy. Walter Gould Davis. p. 11-13. (July 4.) [Obituary.] [Also in Mo. WEA. REV., Apr., 1919.]
- Brooks, Charles F. Meteorological aspects of transatlantic flight. p. 91-93. (July 25.) [Abstract of paper by Gregg, Mo. WEA. REV., Feb., 1919.]
- Scientific American.* New York. v. 120. 1919.
- Subterranean noises in Australia. p. 703. (June 28.)
- McAdie, Alexander. The freedom of the skies. Some of the problems that have to be solved as the human race takes to the air. p. 84. (July 26.) [Discusses general air currents, etc.]
- Scientific American supplement.* New York. v. 88. July 12, 1919.
- Enquist, F. E. The influence of the wind upon the distribution of glaciers. p. 21. [From Bull. Geol. Instit., Upsala. Author draws certain conclusions concerning meteorology of the Glacial Period.]
- Sociedad científica "Antonio Alzate." Memorias y revista. Mexico. t. 37. Enero 1919.
- Lopez, Elpidio. La agricultura y la previsión del tiempo. p. 87-96.
- Symons's meteorological magazine.* London. v. 54. 1919.
- Sutton, J. R. Dew ponds. p. 40. (May.)
- Richard Henry Curtis. 1847-1919. p. 49. (June.) [Obituary.]
- Heworth, M. W. Campbell. The zodiacal light. p. 50-51. (June.) [Observations cited to show terrestrial rather than solar origin.]
- Graham, W. Vaux. Dew ponds. p. 52-53. (June.) [Scouts dew-origin of many "dew ponds."] T 100
- "T 100" Rochester, Rochester. v. 9. July, 1919.
- Ushaw, E. D. Weather in war as an ally. p. 5-6. [Abstr. from Windsor mag.]
- Pearson, S. K., jr. The weather man's business. p. 10-12. [Repr. from Guaranty News.]
- Washington academy of sciences.* Washington. v. 9. March 4, 1919.
- Henry, Alfred J[udson]. The hot spell of August, 1918. p. 111-142. [See Mo. WEA. REV., Aug., 1918.]
- Vinall, H. H. The effect of temperature and other meteorological factors on the growth of sorghums. p. 145-146. [Cf. Mo. WEA. REV., May, 1919. p. 322-323.]
- Aérophile. Paris. 27 année. 1-15 mars 1919.
- Rouch, J. La préparation météorologique d'un voyage aérien. p. 65-71.
- Annales de physique.* Paris. Tome 12. Mars-avril 1919.
- Mathias, E. La pluie en France. p. 109-244. [A study of the distribution of rainfall in relation to altitude.]
- France. Académie des sciences. Comptes rendus. Paris. Tome 168. 1919.
- Reboul, G., & Dunoyer, L. Influence des saisons et des régimes aérologiques sur les variations corrélatives de la pression atmosphérique et de l'intensité du vent. p. 947-950. (12 mai.)
- Dunoyer, L. Sur les erreurs d'estime que peut entraîner la connaissance incomplète du régime aérologique. p. 1102-1105. (2 juin.)
- Brazier, C. E. Influence de la distribution vertical des températures sur les vitesses du vent mesurées au voisinage du sol. p. 1160-1161. (10 juin.)
- Baldit, Albert. Sur certains cas de diminution de la vitesse du vent avec l'altitude. p. 1211-1214. (16 juin.)
- Rouch, J. Sur la vitesse du vent dans l'atmosphère. p. 1281-1283. (23 juin.)
- Guilbert, Gabriel. Sur la prévision à courte échéance des variations de pression de faible amplitude. p. 1333-1335. (30 juin.)
- Géographie.* Paris. Tome 31. nos. 6-8. 1916-1917.
- Regelsperger, Gustave. Le climat de la France. L'œuvre de M. Angot. p. 418-425. [Résumé of various memoirs by Angot and other recent literature.]
- Géographie. Paris.* Tome 32. 1918.
- Rabot, Charles. Le dessèchement progressif de la colonie du Sénégal. p. 111-113. (No. 2.) [Abstr. of memoir by Hubert.]
- Rabot, Charles. La neige dans les Alpes françaises. p. 183-187. (No. 3.) [Review of work by Bénévent.]
- Nature. Paris. 47 année. 31 mai 1919.
- Rouch, J. Les sondages aérologiques par ballons-pilotes. p. 376-378.
- Revue scientifique.* Paris. 57 année. Juillet 1919.
- Dongier, R[alphaël]. La météorologie aux armées. p. 387-397.
- Société météorologique de France. Annuaire. 62 année. Juillet-Décembre 1914.
- Angot, Alfred. La grêle à Paris pendant l'orage du 8 juin 1914. p. 177-179.
- Dupaigne. Description d'un héliographe. p. 180-183.
- Humphreys, W[illiam] Jackson. L'orage et les phénomènes qui l'accompagnent. p. 184-196. [Abstract transl. from Mo. WEA. REV.]
- Besson, Louis. Sur l'observation de la température du sol. p. 190-200.
- Meteorologische Zeitschrift. Braunschweig. Band 36. März-April 1919.
- Wegener, Alfred. Klimatische Windkarten. p. 53-55.
- Johansson, Oscar. V. Die internationale Vorschrift für die Schätzung der Bewölkung. p. 58-68.
- Bjerknes, Vilhelm. Wettervorhersage. p. 68-75.
- Freybe, O[tto]. Die mittlere Veränderlichkeit der Lufttemperatur von Tag zu Tag in der Provinz Hessen-Nassau. p. 76-79.
- Hegefoky, Jakob. Der Zeitraum zwischen dem Aufblühen und der Fruchtreife. p. 79-84.
- Richter, Wilhelm R. Wetterkundliche Lehrfilme. p. 84-87.
- Hellmann, Gustav. Die Lebensdauer der Meteorologen. p. 87-88.
- Schmidt, Wilhelm. Die Windgeschwindigkeit in Bodennähe. p. 88-90.
- Peppler, Albert. Der tägliche Gang der Windgeschwindigkeit in 30 m. Höhe über Ostende und 90 m. Höhe über Brugge. p. 90-93.
- Zinner, F. Der See- und Landwind zu Burgas. p. 93-95.
- Hildebrandsson, Hugo H[ildebrand]. Betrachtungen über Verlauf und Ursache der mittleren Bewegungen der Atmosphäre. p. 95-97.
- Birkeland, Bernt Johannes. Die tägliche Periode des Luftdruckes auf Spitzbergen. p. 97-98.
- Hann, Julius v. Meteorologische Beobachtungen auf Spitzbergen. Green Harbour, 1916 und 1917. p. 98.
- Hann, Julius v. Raoul Gautier und E. Rod, Neue meteorologische Mittelwerte für Genf. p. 99-100.
- Schmauss, August. Die Wahrscheinlichkeit einer Wettervorhersage. p. 101-102.
- Schwarz, L. Beobachtung von leuchtenden Nachtwolken auf der Schneekoppe. p. 102-103.
- Grosse. Starke monatliche Luftdruckabweichungen. p. 104-105.
- Naturwissenschaften. Berlin. 7. Jahrgang. 1919.
- Süring, Reinhard. Über Neigung von Wolkenschichten. p. 31-32. (10 Jan.) [Abstr. from Sitzb. K. Preuss. Akad. Wiss.]
- Wegener, Kurt. Wetterberatung vom Standpunkt des Fliegens. p. 228-229. (4 Apr.) [Abstract.]
- Klengel, Friedrich. Europas meteorologische Hochstationen vor dem Kriege. (11 Apr.) p. 241-243.
- Petermann's Mitteilungen. Gotha. 64. Jahrgang. Mai-Juni, 1918.
- Hann, Julius v. Das Klima von Konstantinopel. p. 115-118.
- Pontificia accademia Romana dei Nuovi Lincei. Atti. Roma. Anno 7. 1918.
- Negro, Carlo. Sulla frequenza degli aloni. p. 63-75. (Feb. 17.)
- Galli, Ignazio. Di altri fulmini globulari osservati in Italia dal 1915 al 1917. p. 131-140. (21 aprile.)
- Gianfranceschi, P. G. Sui fulmini globulari. p. 179-183. (19 maggio.)
- Meli, Romolo. Notizie sismo-geologiche su Soriano-Calabro. p. 184-188. (16 giugno.)
- Fontificia accademia Romana di Nuovi Lincei. Memorie. Roma. (2). v. 3. 1917.
- Cosimo de Giorgi. Idrologia sotterranea atmosferica della penisola Salentina. p. 23-67.
- Dechevrens, Marc. Les courants telluriques étudiés par une méthode simple à l'observatoire St. Louis, à Jersey. p. 159-192.
- Galli, Ignazio. Osservazioni inedite e rare di lampi e fulminazioni. p. 293-349. [Continuation.]